

Demand more from digital

42XM5, 50XM6 and 60XM5 digital plasma displays.



42XM5 AND 50XM6 PLASMAS SHIPPING EARLY 2007

HIGH BRIGHTNESS AND CONTRAST

ACCURATE COLOR REPRODUCTION

ENHANCED DIGITAL VIDEO
PROCESSING

1X5 AND 5X1 VIDEO WALL CAPABLE

ENHANCED TEXT TICKER/INSERT
FUNCTION

LONG LIFE > 60,000 HOURS

PROGRAMMABLE TIMER

NEC's professional plasma displays provide enhanced digital processing, expanded connectivity and amazing flexibility in any viewing environment while delivering crystal clear images every time.

CRYSTAL CLEAR IMAGES EVERY TIME.

- **Crystal Clear Panel/Drive** provides technology to improve brightness and contrast greater than 100% over previous models and also removes false contouring.
- **Improved Red Color Purity** with the newly designed AccuCrimson filter enables reds to be improved over previous models.
- **Enhanced Motion Adaptive 3D Scan Conversion** provides error free interpolation for moving video resulting in a smooth image with greater detail.
- **Enhanced Mass Area Superior Sampling** accurately reproduces diagonal and curved lines with less "jaggies" and also eliminates color bleeds.
- **Multi-Field Noise Reduction** reduces visible noise by looking at the video field before and after the active video field and averages the fields together rather than looking only at the active video field.
- **Color Tune Technology** allows you to adjust individual colors without affecting white balance.
- **Advanced AccuBlend™** converts non-native resolutions to the resolution of the display.
- **Enhanced Digital AccuDevice** allows for artifact and noise free video.
- **Dynamic Gamma Correction** provides luminance enhancement to create a greater contrast ratio.

ADAPTABLE FOR ANY PROFESSIONAL APPLICATION.

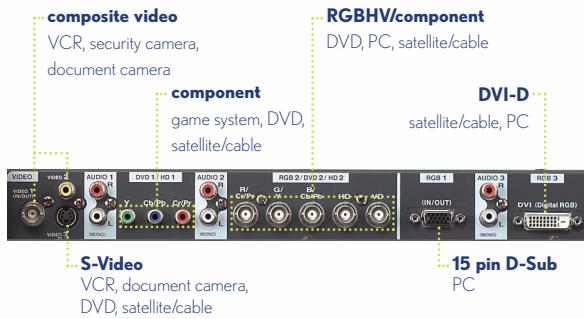
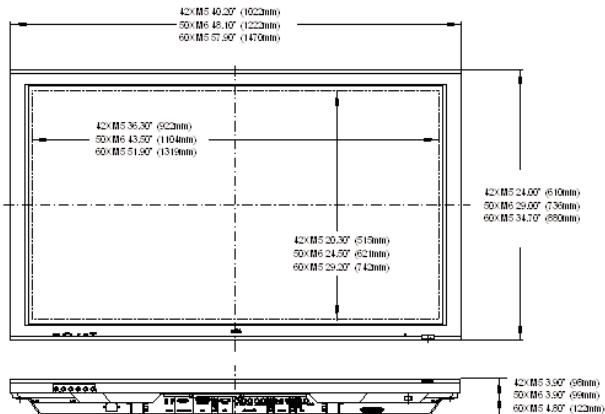
- **Complete Input Panel** including DVI w/HDCP (High-bandwidth Digital Content Protection).
- **IR Remote ID select** allowing units placed in close proximity with one another to have different IR transmissions so only one unit is controlled at a time.
- **IR Loop-through** provides IR flexibility by allowing the plasma unit to receive IR commands from other device remotes and pass them through to the device.
- **Wider signal support** including 1080p and High resolution PC signals.
- **Enhancement of Text Ticker/Insert Function** allows text from another source to be inserted over a portion of the active source in both landscape and portrait modes.
- **Video Wall capability** enables built-in image matrixing to be split into quadrants up to a 5x5 plasma wall. The addition of 5x1 matrix capability allows panoramic views to be shown with ease.
- **Timer Function** includes upgraded programmable timer for ease of use along with additional control to provide 10 separate timer functions.
- **Enhanced Split Screen** allows two sources to be displayed on the screen at one time with multiple configurations and sizes available for both sources.
- **Complete RS-232 control** providing easy setup to control systems.
- **AMX Café Duet Protocol** enables a plug and play system between NEC Plasma and AMX Controller allowing easier control system setup.
- **Independent memory locations** for each input that keep picture and image settings stored.
- **Quiet operation** only 22dB normal operation and less than 1W when in "Stand-by" mode.
- **Underscan Mode** allows the complete image to be seen on the screen. In general video signals are overscanned.
- **Multiple aspect ratio control** allowing flexibility with today's many source choices.

EXCEPTIONAL PRODUCT RELIABILITY AND SERVICE.

- **60,000 Half-Life** provides 20+ years at 8 hours a day viewing before reaching half the original brightness.
- **NEC ranks #1 in product reliability and service** according to Pacific Media Associates 2005 Annual Resellers Survey.
- **Low Power Consumption** due to a new power efficient design while increasing brightness. Thus providing a large display that is environmentally friendly consuming as little as 285W.
- **AccuShield Phosphor Protection system** provides a comprehensive toolset to safeguard the display from possible image retention.

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UNIQUE FEATURES

Advanced AccuBlend	Ensures detailed images when non-native resolution sources are connected to the plasmas.
Phosphor Protection	7 modes - A comprehensive set of built-in modes protects your screen from image retention.
Enhanced Mass Area Superior Sampling (Enhanced MASS)	Eliminates jagged lines, removes color separation and improves detail for crystal clear images.
Crystal Clear Panel/Drive	Provides technology to improve brightness and contrast greater than 100% over previous models and also removes false contouring.
Advanced AccuCrimson™ Filter Technology	Produces vivid accurate colors by eliminating unwanted internal neon light emission.
Color Tune Technology	Adjust individual colors without affecting white balance.
Closed Captioning	Yes
Matrix Capability	2X2, 3X3, 4X4, 5X5, 1X5, 5X1
Underscan Mode	Allows the complete image to be seen on the screen.
AMX Café Duet Protocol	Plug and Play system between NEC Plasma and AMX Controller allowing easier control system setup.
Dynamic Gamma Correction	Provides luminance enhancement to create a greater contrast ratio.
Improved Red Color Purity	With the newly designed AccuCrimson filter, Reds are improved over previous models.
Luminance Management	Provides Auto detection of static images and lowers the brightness to prevent image retention.
Timer Function	Programmable timer for virtual self-running operation. The Programmable timer has been upgraded for ease of use along with additional control to provide 10 separate timer functions.
Video Wall Capability	Built in image matrixing allows the video to be split into quadrants up to a 5x5 plasma wall. Now with the addition of 5x1 matrix capability, panoramic views can be shown with ease.
Enhancement of Text Ticker/Insert Function	Allows text from another source to be inserted over a portion of the active source in both landscape and portrait modes.

*60,000 hour panel life is an approximate time for the display panel to reach half of its original brightness. The panel life is based on motion video as the input source and all display settings at factory default. This time may vary if the source varies and monitor settings are not at factory default. The time given does not imply any warranty beyond the products standard warranty.

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All specifications subject to change without notice.

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PLASMA MODULE

Screen Size (Diagonal)	42"	PX-42XM5A
	50"	PX-50M6A
	60"	PX-60XM5A
Screen Aspect Ratio	16 to 9	
Active Screen Area (WxH)	42XM5: 36.3 x 20.3 in, 922 x 515 mm 50XM6: 43.5 x 24.4 in, 1104 X 621 mm 60XM5: 51.9 x 29.2 in, 1319 X 742 mm	
Native Resolution	42XM5: XGA 1024 x 768 50XM6/60XM5: WXGA 1365 x 768	
Pixel Pitch	.900/.671 mm .81 mm square .97 mm square	
Color Processing	1.07 billion colors, 1024 levels	
Viewing Angle	160°	
Filter Type	Anti-reflective	

SIGNAL COMPATIBILITY/CONNECTIVITY

Scan Rate	Horizontal: 15.5 to 110.0 kHz auto, step scan Vertical: 42XM5: 50 to 120 Hz auto, step scan 50XM6/60XM5: 51 to 120 Hz auto, step scan
Supported Video Standards	PAL, SECAM, 3.58/4.43 NTSC, ATSC
SD/HD Video Signal Compatibility	480i, 480p, 525i, 525p, 540p, 625i, 625p, 720p, 1035i, 1080i, 1080p
PC Signal Compatibility	VGA, SVGA, XGA, SXGA, UXGA, WideVGA (848x480, 852x480), WideXGA (1360x768)
Macintosh Compatibility	Yes
Input/Output Terminals	RGB 1 (analog) 15-pin mini D-sub (common use with RGB out, selectable) RGB 2 (analog) 5 BNC (RGB/HV) (common use with 5BNC Y/Pb/Pr input, selectable) RGB 3 (digital) 24-pin DVI-D HDCP (EIA/CEA-861-A) compatible Video 1 Composite BNC x 1 (common use with Video out, selectable) Video 2 Composite RCA x 2 Video 3 S-Video 4-Pin DIN HD Video 1 1 set RCA Component (Y,Pb,Pr/Y,Cb,Cr) HD Video 2 1 set BNC Component (Y,Pb,Pr/Y,Cb,Cr) (common use with 5BNC Y/Pb/Pr input, selectable)
Audio	3 sets RCA stereo + external speaker jacks Internal amplifier 42XM5: 8W x 2 output power; 50XM6/60XM5: 9W x 2 output power
External Control	RS232, IR (IR loopthrough)
RGB Loop-out	Yes
Video Loop-out	Yes

ELECTRICAL

Power Requirements	120-240V 50/60 Hz
Power Consumption	42XM5: 285W Typical 50XM6: 340W Typical; 60XM5: 440W Typical
Standby Power	42XM5: 0.9W; 50XM6/60XM5: 0.75W

MECHANICAL

Dimensions (WxHxD)	42XM5: 40.2 x 24.0 x 3.9 in, 1022 x 610 x 98mm 50XM6: 48.1 x 29.0 x 3.9 in, 1222 x 736 x 99mm 60XM5: 57.9 x 34.7 x 4.8 in, 1470 x 880 x 122mm
Net Weight	42XM5: 66.1 lbs., 30.0 kg 50XM6: 91.5 lbs., 41.5 kg 60XM5: 135.6 lbs., 61.5 kg
Regulations	FCC Class B, UL60950, CSA-E 60950, Argentine UL, NOM
Fan Noise	22dBA

ENVIRONMENTAL

Operating Temperature	32 - 104 degrees F (0 - 40 degrees C)
Operating Humidity	20 - 80%
Operating Altitude	0 to 8000 feet (0-2438m)
Storage Temperature	14 - 122 degrees F (-10 - 50 degrees C)
Storage Humidity	10 - 90%
Storage Altitude	0 to 9510 feet (0-2900m)

IN THE BOX

AC Power Cord, User Manual, Remote Control, Batteries, Cable Clamps

ACCESSORIES

Order Code	Description
4250WMK	Fixed/Tilt wall mount for 42" and 50" models
61WMK	Fixed/Tilt Wall mount for 60" model
PX-ST3U	Tabletop Stand for 42" and 50" models
PX-61ST1U	Tabletop Stand for 60" model
CMK	Ceiling Mount Kit for 42" and 50" models
FWMKPC	Fixed wall mount that accommodates 3rd party slim line PC (42" and 50" models only)
TWMKPC	Tilt wall mount that accommodates 3rd party slim line PC (42" and 50" models only)
CMKPC	Ceiling mount that accommodates 3rd party slim line PC (42" and 50" models only)
PX-42SP3U	Attachable Speakers for 42" model
PX-50SP3U	Attachable Speakers for 50" model
PX-60SP3U	Attachable Speakers for 60" model
PX-CV2U	Input Terminal Cover
PX-PL1U	Stand Plug
61CMK-1	Ceiling Mount Kit for 60" models.

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